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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,628	06/23/2005	Tatsuo Yokoi	52433/801	6709
26646 KENYON & K	7590 10/15/200 ENYON LLP	EXAMINER		
ONE BROADY		YEE, DEBORAH		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			10/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/540,628	YOKOI ET AL.
Office Action Summary	Examiner	Art Unit
	Deborah Yee	1793
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 11 A 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowated closed in accordance with the practice under	s action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) 5-9 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examination The drawing(s) filed on 23 June 2005 is/are: a	n from consideration. or election requirement. er.	by the Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ction is required if the drawing(s) is ob	ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/11/08.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 11, 2008 has been entered.

Election/Restrictions

2. Claims 5 to 9 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on November 26, 2007.

Specification

3. The disclosure is objected to because of the following informalities: In the specification, Applicant's C*equation needs to changed from "-12/14N" to read ---+12/14N—in order to correct typographical.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1 to 4 and 10 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 408157957 to Kashima et al. ("JP-957") for the reasons set forth in the previous office action dated February 13, 2008.

Response to Arguments

- 6. Applicant's arguments filed August 11, 2008 have been fully considered but they are not persuasive.
- 7. Applicant argued that JP-957 requires the presence of Cu and Ni to obtain high tensile strength and hole-expandability ratio whereas present invention steel does not. It is the Examiner's position that prior art Cu and Ni are not excluded by the transitional phrase "consisting essentially of" recited by Applicant's claims. Note elements would not appear to affect the basic and novel characteristics of the present invention since they were originally included as additives for the present invention alloy.
- 8. It was argued that JP-957 in paragraph [0011] teaches that if the C content does not satisfy equation (1) or (2), then dissolution (equivalent to solid solution) C remains in the ferrite phase and forms a secondary phase in the ferrite phase and deteriorate flanging property. On the other hand, according to the present invention, C* amount (solid solution C) is defined as over 0% and up to 0.05% for softening resistance of the weld heat affect zone and ensuring hole expandability.
- 9. In response to argument, Applicant's C* amount does not appear to define the amount of solid solution C actively present in the steel but rather the amount of solid solution C that combines with Nb and Ti to form carbides and increase strength, and the

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amount of solid solution C that combines with Mo or Cr to prevent softening of the HAZ. See pages 10 and 11 of Applicant's specification.

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- 10. Similar to present invention, JP-957 in paragraph [0016] and [0021] teaches adding Ti, Nb, Mo and Cr as strengthening elements that combine with solid solution carbon to form carbide precipitation. More specifically, prior art examples in table 1 on page 6 closely approximate the claimed composition and C* equation = 0.04-(12/48 (0.105)-12/32(0.001) = 0.0137 and is within the claimed C* range of >0 to 0.05.
- 11. To distinguish claims over JP-957, it is recommended to use language that actively recites the presence of solid solution carbon in hot rolled welded steel such as --wherein an effective amount of solid solution C is present in said hot rolled welded steel sheet to achieve excellent softening resistance at the weld heat affected zone---.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner Art Unit 1793

/DY/